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 DOCUMENT NUMBER: 127:62511  
 ORIGINAL REFERENCE NO.: 127:11889a,11892a  
 TITLE: Preparation of D-amino acid oligopeptides and  
 Saccharothrix D-amino acid transferase for the  
 preparation  
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 Takenishi, Shigeyuki; Shimada, Yuji; Nagao, Toshihiro;  
 Tominaga, Yoshio  
 PATENT ASSIGNEE(S): Kanegafuchi Chemical Industry Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	JP 09173062	A	19970708	JP 1995-341888	19951227
PRIORITY APPLN. INFO.:				JP 1995-341888	19951227
AB	Oligopeptides containing D-amino acids were prepared with an enzymic method. The D-amino acids used may include esters of D-amino acids and hydrophobic D-amino acids. The enzyme used was the D-amino acid transferase from Saccharothrix strain FERM P-15341. This enzyme showed optimal pH at 7.0, optimal temperature 40-45°, mol. weight .apprx.60,000, and pI 6.5. It was stable at pH 7.0, 55°, for 30 min. Some other properties of this enzyme are given. Effective substrates of this enzyme include D-Phe-OMe, D-Tyr-OMe, D-Trp-OMe, D-Leu-OMe, and D-Met-OMe. Examples of oligopeptides prepared include (D-Phe)2OMe, (D-Phe)3, (D-Phe)4, (D-Phe)3OMe, (D-Phe)4OMe, (D-Phe)5OMe, and (D-Phe)6OMe.				
IC	ICM C12N009-10				
	ICS C12N001-20; C12P021-02; C12N009-10; C12R001-01				
CC	7-2 (Enzymes)				
	Section cross-reference(s): 6, 10				
IT	184713-36-8P				
	RL: BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation) (preparation of (D-Phe)3; preparation of D-amino acid oligopeptides and Saccharothrix D-amino acid transferase for the preparation)				
IT	191614-03-6P				
	RL: BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation) (preparation of (D-Phe)3OMe; preparation of D-amino acid oligopeptides and Saccharothrix D-amino acid transferase for the preparation)				
IT	184713-37-9P				
	RL: BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation) (preparation of (D-Phe)4; preparation of D-amino acid oligopeptides and Saccharothrix D-amino acid transferase for the preparation)				
IT	191614-04-7P				
	RL: BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation) (preparation of (D-Phe)4OMe; preparation of D-amino acid oligopeptides and Saccharothrix D-amino acid transferase for the preparation)				
IT	191614-05-8P				
	RL: BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation) (preparation of (D-Phe)5OMe; preparation of D-amino acid oligopeptides and Saccharothrix D-amino acid transferase for the preparation)				

IT 191614-06-9P

RL: BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation of (D-Phe)6OMe; preparation of D-amino acid oligopeptides and Saccharothrix D-amino acid transferase for the preparation)

IT 184713-36-8P

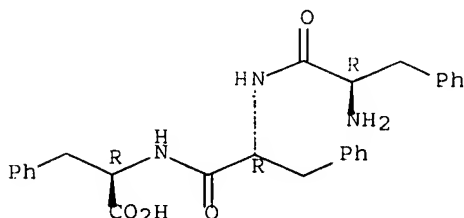
RL: BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation of (D-Phe)3; preparation of D-amino acid oligopeptides and Saccharothrix D-amino acid transferase for the preparation)

RN 184713-36-8 ZCAPLUS

CN D-Phenylalanine, D-phenylalanyl-D-phenylalanyl- (CA INDEX NAME)

Absolute stereochemistry.



IT 191614-03-6P

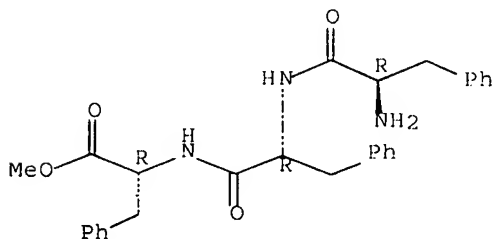
RL: BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation of (D-Phe)3OMe; preparation of D-amino acid oligopeptides and Saccharothrix D-amino acid transferase for the preparation)

RN 191614-03-6 ZCAPLUS

CN D-Phenylalanine, D-phenylalanyl-D-phenylalanyl-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 184713-37-9P

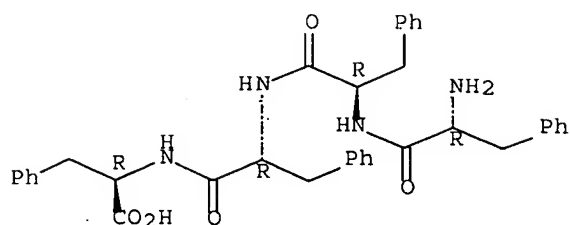
RL: BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation of (D-Phe)4; preparation of D-amino acid oligopeptides and Saccharothrix D-amino acid transferase for the preparation)

RN 184713-37-9 ZCAPLUS

CN D-Phenylalanine, D-phenylalanyl-D-phenylalanyl-D-phenylalanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 191614-04-7P

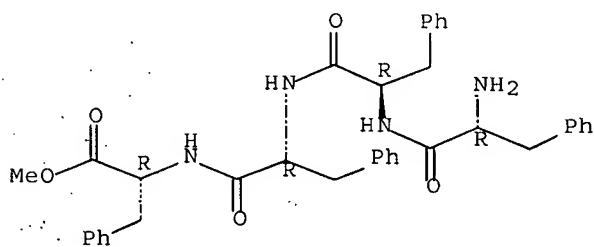
RL: BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation of (D-Phe)<sub>4</sub>OMe; preparation of D-amino acid oligopeptides and Saccharothrix D-amino acid transferase for the preparation)

RN 191614-04-7 ZCAPLUS

CN D-Phenylalanine, D-phenylalanyl-D-phenylalanyl-D-phenylalanyl-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 191614-05-8P

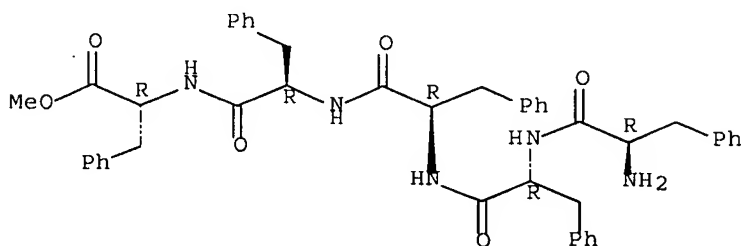
RL: BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation of (D-Phe)<sub>5</sub>OMe; preparation of D-amino acid oligopeptides and Saccharothrix D-amino acid transferase for the preparation)

RN 191614-05-8 ZCAPLUS

CN D-Phenylalanine, D-phenylalanyl-D-phenylalanyl-D-phenylalanyl-D-phenylalanyl-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 191614-06-9P

RL: BPN (Biosynthetic preparation); BIOL (Biological study); PREP  
(Preparation)

(preparation of (D-Phe)6OMe; preparation of D-amino acid oligopeptides and  
Saccharothrix D-amino acid transferase for the preparation)

RN 191614-06-9 ZCAPLUS

CN D-Phenylalanine, D-phenylalanyl-D-phenylalanyl-D-phenylalanyl-D-  
phenylalanyl-D-phenylalanyl-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

